

PROBE: An Interactive Environment to Enhance Model Development Using Process-Based Diagnostics (PROBE)

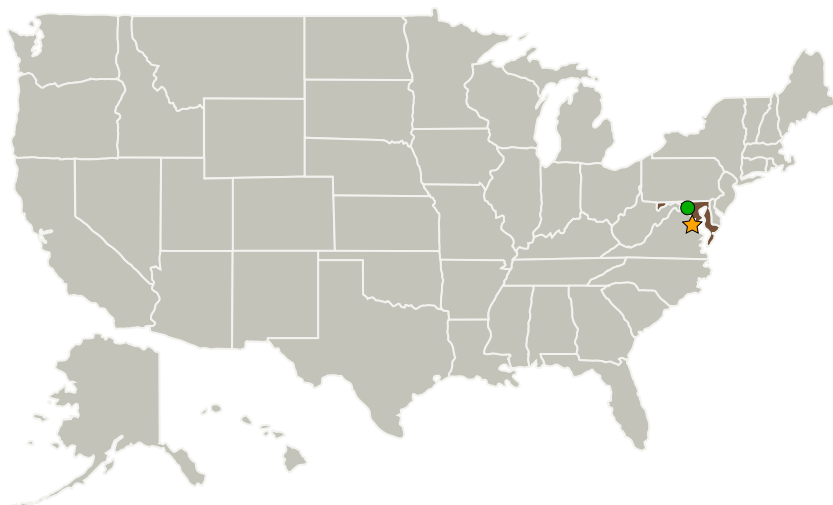
Completed Technology Project (2014 - 2015)



Project Introduction

- Develop a PROcess-Based Exploration (PROBE) technology that empowers researchers to extract process-based diagnostics from large data collections including re-analyses, climate model simulations, and remote sensing data.
- Demonstrate that the same architecture and mode of operation proposed for Automated Event Services (AES) are also well suited to facilitate efficient process-based diagnostics for model development.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ NASA Headquarters(HQ)	Lead Organization	NASA Center	Washington, District of Columbia
● Goddard Space Flight Center(GSFC)	Supporting Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations

Maryland



ALHAT - ETD Autonomous Landing & Hazard Avoidance Tech Earth Science Technology Office

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Images



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ALHAT - ETD Autonomous Landing
& Hazard Avoidance Tech Earth
Science Technology Office
(<https://techport.nasa.gov/image/5125>)

Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

NASA Headquarters (HQ)

Responsible Program:

Earth Science

Project Management

Program Director:

George J Komar

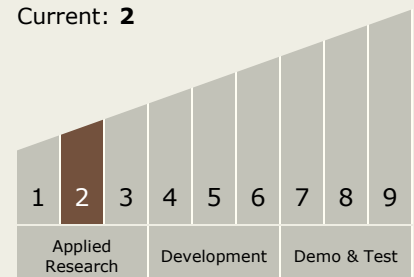
Principal Investigator:

Thomas L Clune

Technology Maturity (TRL)

Start: 2

Current: 2



Technology Areas

Primary:

Continued on following page.

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Technology Areas (cont.)

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.4 Information Processing
 - └ TX11.4.2 Intelligent Data Understanding

Target Destination

Earth